

ABSTRACT OF THE DISCLOSURE

A tube expanding apparatus includes mandrels each having a billet on a leading end; a reciprocating actuator for supporting rear ends of the mandrels, the reciprocating actuator being supported so as to be able to reciprocate in an axial direction of hairpin tube straight portions; a pressure cylinder for raising and lowering this reciprocating actuator and expanding the straight portions by pressing the billets into the hairpin tube straight portions; hairpin receivers for supporting curved portions of hairpin tubes; a fin receiver for supporting a lower end portion of the plurality of laminated radiating fins; and a hydraulic cylinder for raising and lowering the fin receiver in the axial direction of the hairpin tube straight portions. The hydraulic cylinder lowers the fin receiver to a predetermined position as the mandrels descend and the billets begin to be inserted into the hairpin tubes.